Λ	la	m	Δ	=
1				_

# Maths Genie Stage 2

# Test D

#### **Instructions**

- Use black ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided
- there may be more space than you need.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- · You must show all your working out.
- Calculators may not be used.

### Information

- The marks for each question are shown in brackets
- use this as a guide as to how much time to spend on each question.

## **Advice**

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- · Check your answers if you have time at the end

1	Write 9:	5.46 correct to one decimal place.				
				95.5		
			(Total fo	r Question 1 is 1 mark)		
2	Write 37	correct to 1 significant figure.				
				40		
***************************************			(Total fo	or Question 8 is 1 mark)		
3		is going to have a meal. choose one starter and one main from	om the menu.			
		<u></u>				
		Main	Dessert			
		Lasagne Pizza Salad	Ice Cream Cake Fruit			
		own all the possible combinations A	The state of the s			
	L	asagne, Ice Cream	Pizza, Ice Crean	Scalad Ice Crea		
	La	sagne, Fruit Cake Lasagne, Fruit	PILZa, Cake	Salad, Cake		
	8-	Lasagne, Fruit	Pizza, Fruit	Salad, Fruit		
	aperxpoerps exapterax		1 mark for just 1 error			
ntvitetaku			(Total fo	or Question 3 is 2 marks)		

	There are 10 marbles in a bag.			The Armagade State (Co.)
	5 marbles are red.			No.
	3 marbles are blue.			
	2 marble is green.			
	On marble is selected at random from the bag.			
	on marble is selected at faildoin from the bag.			
	(a) On the probability scale mark with a cross $(X)$ th	ne probabi	lity that the marb	le is red.
	<u> </u>			
	$\frac{1}{2}$		1	(1
	<b>Z</b>		•	
	(1) (0) (4) (0) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	1 1		1 - 1 11
	(b) On the probability scale mark with a cross (X) the	ne probabi	miy mai me maro	ie is yellow
a	P 247			
	*			
	$\stackrel{\circ}{0}$		1	
	$\frac{1}{2}$		1	(1
,	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			
	(c) Write down the probability that marble is blue.			
	(v) white down the producting that marche is olde.			_
				3
				10
			######################################	(1)
			(Total for Our	estion 4 is 3 mark
		·· <del>···································</del>	(10tai 101 Que	Stion 4 is 5 mark
	An adult cinema ticket costs £x			
	The price of a child's ticket is £5 more than the price	of on odu	ilt tialrat	
	The price of a clinid's ticket is 1.5 more than the price	or an adu	iit ticket.	
	Write an expression for the price, in pounds, of a chi	ld's ticket		
	or a contract of the price, in pounds, or a contract	ia s tieret.		
				2+5
			£	<b>ル</b> 7 5
			(Total for One	stion 5 is 1 mark
********		***************************************	(10th) Vac	
(	Charles has m marbles.			
	Rosalind has twice as many marbles as Charles			
	The state of the s			
,	Write an expression for the number of marbles Rosal	ind has		
	with an expression for the number of margies Rosar	ina nas.		
	$A_{ij} = A_{ij} + A_{ij}$			
				2m
			· ·	2m

7 Work out  $24.6 \times 9$ 

1 mark for just 1 error

221.4

(Total for Question 7 is 2 marks)

**8** Work out 3254 – 947

$$\frac{{}^{2}3{}^{2}2{}^{4}8{}^{4}4}{{}^{2}9{}^{4}7}$$

$$\frac{{}^{2}3{}^{3}0{}^{7}$$

1 mark for just 1 error

2307

(Total for Question 8 is 2 marks)

9 Work out 7.1 + 10.92 + 368

1 mark for just 1 error

386.02

(Total for Question 9 is 2 marks)

